Technical specifications

ADVIA Centaur CP Immunoassay System

The ADVIA Centaur® CP Immunoassay System is a mid-volume benchtop system that enhances your in-house test capabilities. With its broad menu and short turnaround times, you can do more—without compromising efficiency, productivity, or quality.

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Technical specifications

Product specifications	
System description	Random-access immunoassay system with direct chemiluminescence testing methodology using advanced acridinium ester technology
Test throughput	Up to 180 tests per hour in batch or random-access mode
Walkaway time	1 hour minimum when the system is fully loaded with samples, reagents, and supplies
Sample handling	
Validated sample types	Serum, plasma, urine (varies by assay)
Sample integrity control	Pressure-based level sensing, short sample detection and flagging, clot detection and flagging, foamy sample detection, ambient temperature detection and flagging
Auto-repeat	User-defined automatic repeat testing from original sample
Sample dilution	Can be auto-diluted
Auto-reflex testing	User-defined automatic reflex testing
Sample carryover prevention	Disposable pipette tips eliminate sample carryover
Sample volume per test	10–300 µL of sample (varies by assay)
Sample bar code	Code 39; Codabar; Code 128; Interleaved 2 of 5 (any of the symbologies may be active at one time)
Sample tubes	5 mL, 7 mL, 10 mL, 1 mL sample cups, microtainer tubes
Sample capacity	84 sample continuous loading in 12 position sample racks
Pipette tips	ADVIA Centaur type; 480 onboard, automatic tracking and notification
STAT handling	Dedicated STAT position; additional keyboard option for scheduling STATs individually
Reaction area	
Reaction cuvettes	Onboard capacity of 400 ADVIA Centaur cuvettes
Assay times	About 20–30 minutes,* assay-dependent
Assay technology	Direct chemiluminescence testing methodology using advanced acridinium ester technology
Reagent handling	
Primary ancillaries	15-position cooled storage with refrigeration at 10–12°C (50–54°F)
Reagent ancillaries	10-position cooled storage with refrigeration at 10–12°C (50–54°F)
Reagent packs	ReadyPack® cartridge
Reagent integrity control	Reagent pack bar-code identification; automatic tracking and notification of inventory, calibration validity, reagent onboard residency, reagent expired/low flags
Reagent inventory management	Automatic tracking and notification of remaining tests, onboard residency, calibration, and reagent expired/low flags
Reagent preparation	None required
Bar code-labeled packs	Yes
Calibration/QC	
Calibration identification	Bar-coded labels containing lot-specific data; human and system readable through handheld bar-code scanner
Calibration status	Tracking and notification of calibration status, including advance notice of pending expiration; user-defined processes for response of calibration expiration
QC package	Advanced QC package for long-term monitoring, including L–J plots and Westgard rules
QC levels	0–9 control levels per assay
QC definitions	User-defined
QC results storage	25,000 control, patient, and event results can be stored in the database

**Time to first result barring errors for a 1 Pass assay (with a 15.6 minute intrinsic assay time) shall be no greater than 20 minutes. For a 1 Pass Extended assay (with a 25 minute intrinsic assay time), time to first result barring errors shall be no greater than 30 minutes.*

Maintenance	
Daily	Automated: ≤30 minutes; hands-on: <5 minutes
Weekly	Hands-on: ≤30 minutes
Monthly	Hands-on: ≤60 minutes

User interface/data management	
Monitor	19-inch diagonal LCD touchscreen
Operating system	MICROSOFT WINDOWS 7
Remote access and service	Smart Remote Services

General specifications	
Power requirements	100–240 V, 50/60 Hz
Water input requirements	Type 1 reagent water guidelines as specified by the Clinical Laboratory and Standards Institute (CLSI); at minimum, water quality should meet CLSI Type II guidelines
Water quality requirements	Bacterial content: <1000 CFU/mL Maximum resistivity: 1.0 megohm/cm
Drain requirements	7.5 L waste bottle (assembly is included)
Dimensions	81 (h) x 107 (w) x 74 (d) cm 32 (h) x 43 (w) x 29 (d) inches (excluding monitor and accessories)
Weight	166 kg (366 lb) (including monitor and accessories)
Compliance	Complies with international environmental, health, and safety standards, including CE and RoHS
Noise emission	Up to 65 dB (with normal use)
Ambient temperature	18–30°C (64–90°F)
Ambient humidity	20–85% RH noncondensing
Overvoltage classification	Main supply voltage fluctuations must be within ±10% of the nominal voltage
Pollution classification	IEC 1010-1 Pollution Degree 2

At Siemens Healthineers, our purpose is to enable healthcare providers to increase value by empowering them on their journey toward expanding precision medicine, transforming care delivery, and improving patient experience, all made possible by digitalizing healthcare.

An estimated 5 million patients globally benefit every day from our innovative technologies and services in the areas of diagnostic and therapeutic imaging, laboratory diagnostics, and molecular medicine, as well as digital health and enterprise services.

We are a leading medical technology company with over 120 years of experience and 18,000 patents globally. Through the dedication of more than 50,000 colleagues in 75 countries, we will continue to innovate and shape the future of healthcare.

Product availability may vary from country to country and is subject to varying regulatory requirements. Please contact your local representative for availability.

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